

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 07083080
PUBLICATION DATE : 28-03-95

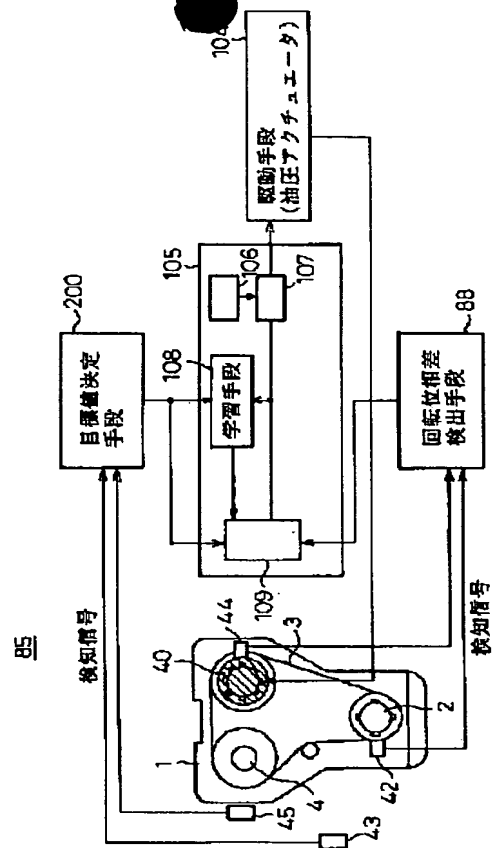
APPLICATION DATE : 17-09-93
APPLICATION NUMBER : 05231706

APPLICANT : NIPPONDENSO CO LTD;

INVENTOR : KAWAI KATSUHIKO;

INT.CL. : F02D 13/02 F01L 1/34

TITLE : VALVE MOTION TIMING ADJUSTING
DEVICE OF INTERNAL COMBUSTION
ENGINE



ABSTRACT : PURPOSE: To provide a valve timing regulating device capable of precisely controlling timing without influence of dispersion and the like in manufacturing a valve by simplifying its structure and by a learning effect for a short period of time.

CONSTITUTION: This device is furnished with a phase adjusting mechanism 40 of a crankshaft 2 and a camshaft, a phase adjusting mechanism driving means 104, various kinds of sensors 42-45 provided on each part of an internal combustion engine, a rotating phase difference detection means 88 to compute an actual phase difference angle between both of the shafts in accordance with detected values of the sensors, a target value decision means 200 to decide a target value of a rotating phase difference, a control means 105 to make the actual phase difference angle coincide with the target value of the rotating phase difference and a dither signal generation means 106, and it is constituted to add a dither signal to output of the control means 105.

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